

**IN THE SPECIFICATION:**

The following lines have been reproduced in a larger font size for the Examiner's convenience, as shown below:

Page 4, line 5:

$$c[n] = [a[0]\bar{b}, a[1]\bar{b}, \dots, a[M-1]\bar{b}].$$

Page 4, line 9:

$$s[t] \leftrightarrow S(e^{j\omega}) \neq 0 \text{ for all } \omega$$

Page 5, line 8:

$e^{j2\pi nP/L}$  where P comprises the set of values in the range 0, ..., L-1, and L is the length of the

Page 6, line 11:

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Page 12, line 18:

$$c_f[n] = c[n]e^{j2\pi(\frac{fn}{N})}$$

Page 13, line 19:

spectrum rotating functions  $e^{j2\pi(fn/N)}$ , first to fourth pulse shapers 39, 40, 41, 42 for shaping the

Page 14, lines 15-21:

$$m_0(t) = M_0(t)c[n]$$

$$m_1(t) = M_1(t)c[n]e^{j2\pi(\frac{1n}{N})}$$

$$m_2(t) = M_2(t)c[n]e^{j2\pi(\frac{2n}{N})}$$

$$m_3(t) = M_3(t)c[n]e^{j2\pi(\frac{3n}{N})}$$

where  $n = (t \text{ div } T_c) \bmod N$ ,

$M_i(t)$  is the  $i$ th data bitstream

and  $T_c$  is the chip period.

Page 16, last line:

signal of the form  $e^{j2\pi nP/L}$  where  $P$  is the index of the branch and is in the range 0,

Page 17, line 10:

Function ( $v[n]$ ) and the respective phase rotation function  $e^{j2\pi nP/L}$  for each branch. Thus,

Page 17, line 11:

$$u * [n; P] = c[n]v[n]e^{j2\pi n \frac{P}{L}}$$

Page 20, line 19:

$$e^2 = \min_{\hat{\bar{D}}} \left| \bar{\rho} - HR\hat{\bar{D}} \right|^2$$

Page 21, lines 1-5:

$$\begin{aligned}\bar{D} &= [d[0], d[1], \dots, d[L-1]]^T \\ H &= \begin{bmatrix} \bar{H}^T[i;0] & 0 & 0 & 0 \\ 0 & \bar{H}^T[i;1] & 0 & 0 \\ 0 & 0 & \ddots & 0 \\ 0 & 0 & 0 & \bar{H}^T[i;L-1] \end{bmatrix} \\ R &= \begin{bmatrix} \bar{R}[0] & \bar{R}[1] & \dots & \bar{R}[L-1] \\ \bar{R}[-1] & \bar{R}[0] & \dots & \bar{R}[L-2] \\ \vdots & \vdots & & \vdots \\ \bar{R}[-L+1] & \bar{R}[-L+2] & \dots & \bar{R}[0] \end{bmatrix}\end{aligned}$$

$$\bar{H}[i;l] = \left[ h^{(i)}[\gamma] e^{-j2\pi \frac{i+lM}{LM}(\gamma+\tau_1-\tau_2)} \right]^T$$

$$\bar{R}[1] = \left[ \sum_i b[l] b[l + \gamma + \tau_1(\text{mod})L - \tau_2(\text{mod})L] e^{j2\pi \frac{l}{L}i} \right]^T$$

Line 4, continued:

for  $\gamma = 0, 1, \dots, \varsigma$

Line 5, continued:

for  $\gamma = 0, 1, \dots, \varsigma$